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Proposal for Research

SRI International No. ESU 81-60

NIC TECHNIQUES (U)

Part One--Technical Proposal

Prepared for:

Defense Supply Service-Washington
Room 1D-245, The Pentagon
Washington, D.C. 20310

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Radio Physics Laboratory

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I INTRODUCTION

This document is a proposal to pursue activity in support of DIA(DT) Statement of Work, Novel Intelligence Collection Techniques (Psychoenergetics-Threat to U.S. and Potential Applications), SECRET.

To accomplish the proposed program, SRI will provide approximately three man-years of effort with the necessary personnel (see attached biographies), facilities, and materials to perform the work as outlined in the DIA Statement of Work. Details of the effort are specified in the following section.

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I STATEMENT OF WORK:
NOVEL INTELLIGENCE COLLECTION TECHNIQUES
(PSYCHOENERGETICS--THREAT TO U.S. AND POTENTIAL APPLICATIONS)

1. General

The objective of this effort is to investigate in detail certain psychoenergetic phenomena that have potential military applications. Emphasis will be on evaluating application potential and limitations of such phenomena, and to provide such knowledge as gained under this contract to appropriate DoD agencies who will evaluate the significance of foreign work, particularly as it may pose a threat to the United States.

Major emphasis will be on evaluating remote viewing phenomena and in particular, targeting aspects, via coordinate or other methods. Related to this are training methods, methods of enhancing reliability and repeatability of the phenomena.

2. Specific Tasks (FY'81)

2.1 Develop audio/semantic analysis techniques to separate correct from incorrect data available from taped viewer descriptions of remote viewing sites and to provide selective editing under operational conditions.

2.2 Determine what is required for target acquisition (names, maps, coordinates, pictures, arbitrary labelings, simply the word "target," etc.)

2.3 Evaluate threat potential of foreign remote viewing--type investigations:

2.3.1 Simulate experimental results for which there is data to assess validity of the foreign research.

2.3.2 Assess military applications potential of the foreign research (or claims), particularly where a threat to U.S. security is possible.

2.3.3 Assess feasibility of the most significant applications and evaluate limitations.

2.3.4 Evaluate the use of remote viewing to locate target objects or people.

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2.3.5 Evaluate the use of remote viewing for event detection and to locate events.

2.3.6 Evaluate the use of remote viewing to detect the presence or absence of targets.

2.3.7 Evaluate the potential of various camouflage, concealment and deception as countermeasures to remote viewing.

2.3.8 Investigate the effects of the following variables on the remote viewing phenomena. (a) accuracy. (b) degree of resolution. (c) affect on the sensory inputs (feel, smell, touch, etc.).

2.3.9 Determine potential of remote viewing to assess other types of information, such as specific S&T data, or function/purpose of facilities or activities.

2.4 It is anticipated that during the contract period there will be quick reaction tasks approved by the Grill Flame Committee, passed through the COTR and levied on the contractor. These will be of high priority and will require prompt attention.

3. Security Requirements

It is expected that a maximum of six SI/SAO billets will be required to properly support the program. If and when SRI International commences work on operational situations, it is required that all personnel connected with operational matters possess the necessary clearances.

4. Deliverables

The contractor shall provide the following:

4.1 Quarterly Reports to highlight accomplishments and resources expenditures (by specific tasks the amount of funding, equipment used, Professional/Support man hours). Detail progress on each sub-task designated for examination during the quarter will be completed by the contractor.

4.2 Draft Final Report using the same format as the Quarterly Reports but covering the entire contract period.

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4.3 A Final Report based on the Draft Final Report and the comments made by the COTR.

4.4 Program progress briefing shall be of an informal nature and shall be held at the end of each quarter. The contractor shall furnish copies of informal charts, viewgraphs and other aids as may be needed. The informal briefings shall consist of a contractor presentation and informal discussion among contractor, funding agencies and other government personnel as appropriate.

4.5 Quick reaction reports as required by the COTR. They will be of limited scope and deal with subjects of especially high interest and/or critical timeliness.

4.6 All supporting material, i.e., notes, maps, tapes for this contract will be made available by the contractor to the COTR and no such material will be destroyed without written permission.

5. Delivery Schedule

The COTR will insure members of the Grill Flame Committee receive copies of all deliverables.

5.1 Quarterly Reports: Five copies to the COTR. The first report is due 100 days after the contract award date and will cover the first 90 days of the contract. Subsequent reports will be due each 90 days thereafter, i.e., 190 days after contract award, 280 days, 370 days, etc.

5.2 Draft Final Report: Five copies to the COTR within 30 days of completion of the contract. Comments will be returned to the contractor within 45 days of receipt of the draft.

5.3 Final Report: Ten copies and a camera ready master to the COTR within 45 days of receipt of the comments made on the Draft Final Report.

5.4 Programm Progress Briefings: Approximately 4 per year are anticipated. Specific times and places will be established by the COTR. Some briefings will occur in the Washington, D.C. area and may involve more than one presentation by the contractors.

5.5 Quick Reaction Reports: Number of copies, place and time of delivery to be determined by the COTR.

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5.6 Supporting Materials: Provided to the COTR when requested during the period of contract performance. All such material will be finally delivered to the COTR at the same time as Final Report. (5.3 above).

MILESTONE CHART: NOVEL INTELLIGENCE TECHNIQUE

FY'81 (\$270K)

2.0 Tasks for FY'81

2.1	24%
2.2	20%
2.3	46%
2.4	10%

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ROBERT S. LEONARD

**Director
Radio Physics Laboratory
Systems Research & Analysis Division**

SPECIALIZED PROFESSIONAL COMPETENCE

Radio-wave propagation: in normal environments; in naturally disturbed environments (aurora); in manmade disturbances (nuclear explosions)

REPRESENTATIVE RESEARCH ASSIGNMENTS AT SRI (since 1961)

**Project director of a program to remotely sense nuclear detonations during the U.S. high altitude nuclear test program
Led a research effort to improve the U.S. capability to detect foreign nuclear test by their effect on radio propagation
Technical director of a large multicontractor research program to study the effects on radio propagation of an artificially produced ionospheric plasma
Technical director on a program to develop special communications techniques**

OTHER PROFESSIONAL EXPERIENCE

**Instructor, researcher, and graduate student, Geophysical Institute, University of Alaska: HF and low VHF radio-wave propagation studies of auroral effects; designed, developed, and tested a prototype of the 41-MHz auroral radar used in the U.S. IGY program; installed and operated the six Alaskan IGY-auroral radars, and analyzed the data collected during the IGY
Teaching assistant, Physics Department, University of Nevada**

ACADEMIC BACKGROUND

B.S. (1952) and M.S. (1953) in physics, University of Nevada; Ph.D. in geophysics (1961), University of Alaska

PUBLICATIONS

"Observations of Ionospheric Disturbances Following the Alaska Earthquake," J. Geophys. Res. (March 1965); "Selection of a Model of the Earth's Magnetic Field," J. Geophys. Res. (December 1962); "Evidence of Low-Frequency Amplitude Fluctuations in Radar Auroral Echoes," J. Geophys. Res. (April 1962); "Distribution of Radar Auroras over Alaska," J. Geophys. Res. (March 1962); "A Low Power UHF Radar for Auroral Research," PIRE (February 1959); "Distribution of Radar Auroras over Alaska," Ph.D. thesis; "Photoelectric Recording of a Complex Light Source of Rapidly Varying Intensity," Master's thesis

PROFESSIONAL ASSOCIATIONS

**American Geophysical Union
Union Radio Scientifique Internationale**

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HAROLD E. PUTHOFF

Senior Research Engineer
Radio Physics Laboratory
Systems Research and Analysis Division

SPECIALIZED PROFESSIONAL COMPETENCE

Research in "remote viewing" and other psi phenomena (1972-present)
Research in lasers, quantum electronics, nonlinear optics
Research and development of tunable solid-state lasers, electron beam lasers, microwave tubes

OTHER PROFESSIONAL EXPERIENCE

Research associate, Hansen Laboratories of Physics, and lecturer, Department of Electrical Engineering, Stanford University; teaching, textbook author, research supervisor of Ph.D. candidates in the area of lasers and nonlinear optics
Lieutenant, USNR: in-house research and contract monitoring on DoD (NSA) contracts concerned with the development of ultra high-speed (GHz) computers, assessment of potential of fiber optics and lasers for use in optical computers
Research engineer, Sperry Electronic Tube Division, and Sperry fellow, University of Florida: design and testing of electron-beam focusing systems for use in microwave tubes

ACADEMIC BACKGROUND

B.E.E. (1958) and M.S.E. (1960), University of Florida; Ph.D. in electrical engineering, Stanford University (1967)

PUBLICATIONS AND PATENTS

Author or coauthor of more than twenty-five papers in professional journals on electron beam and laser research, and, more recently, first major publications of research on psi phenomena in Nature ("Information Transfer Under Conditions of Sensory Shielding," Oct. 1974), in the Proceedings of the IEEE ("A Perceptual Channel for Information Transfer over Kilometer Distances," March 1976) and in the AAAS book The Role of Consciousness in the Physical World ("Experimental Psi Research: Implications for Physics," 1980)
Coauthor of textbook, Fundamentals of Quantum Electronics (Wiley, New York, 1969) published in English, French, Russian;
Coauthor of Mind Reach: Scientists Look at Psychic Ability (Delacorte, New York, 1977);
Coeditor of Mind at Large: IEEE Symposia on the Nature of Extrasensory Perception (Praeger, New York, 1979);
Patent on high-power tunable infrared laser source (50-250 microns)

PROFESSIONAL ASSOCIATIONS AND HONORS

American Association for the Advancement of Science, American Physical Society, Institute of Electrical and Electronics Engineers, Sigma Xi, Department of Defense Certificate of Commendation for Outstanding Performance, IEEE Franklyn V. Taylor Memorial Award for paper "A Scientific Look at ESP," listed in American Men and Women of Science

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EDWIN C. MAY

Senior Research Physicist
Radio Physics Laboratory
Systems Research and Analysis Division

SPECIALIZED PROFESSIONAL COMPETENCE

Charged particle and gamma-ray spectroscopy; analogue and high-speed digital electronics; numerical analysis; real-time computer applications for data acquisition and analysis; research in bio-feedback technology and applications, and cardiac blood flow problems; field research in India and laboratory research at Maimonides Medical Center on psycho-energetic phenomena

OTHER PROFESSIONAL EXPERIENCE

Theoretical calculations in radiation transport;, atmospheric physics, and E & M wave scattering at the RAND Corporation
Experiments in nuclear reaction mechanism and nuclear structure at the U. of California Crocker Nuclear Laboratory
Undergraduate physics teaching at the City College of San Francisco
Equipment engineer and clinical experience at the Bio-feedback Institute of San Francisco
Research consultant on psychokinesis at the Maimonides Medical Center

ACADEMIC BACKGROUND

B.S. in physics, University of Rochester (1962); Ph.D. in physics, University of Pittsburgh (1968)

PUBLICATIONS

Author or coauthor of eleven scientific papers in experimental nuclear physics research;
Author or coauthor of numerous scientific papers in psychoenergetic research;
Author or coauthor of eleven research abstracts in nuclear physics for professional meetings
Author or coauthor of three abstracts in psychoenergetic research for professional and meetings

PROFESSIONAL ASSOCIATIONS

American Physical Society, American Association for the Advancement of Science, Institute of Electrical and Electronics Engineers, Parapsychology Association, The American Society for Psychical Research

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RUSSELL TARG

Senior Research Physicist
Radio Physics Laboratory
Systems Research and Analysis Division

SPECIALIZED PROFESSIONAL COMPETENCE

Research in remote sensing and other psychoenergetic phenomena
(1972-present)
Development of high-power gas lasers, FM laser, and supermode laser
techniques
Optical modulation and demodulation at microwave frequencies
Microwave generation from plasmas

PREVIOUS PROFESSIONAL COMPETENCE

Sylvania Corporation; investigation of techniques for development of
new gas lasers, making use of research with compact, self-contained
multikilowatt CO lasers
Technical Research Group; experiments in new gaseous laser media
Polytechnic Institute of Brooklyn; assisted in the establishment of
electron beam laboratory
Sperry Gyroscope Company, Electron Tube Division; experimental work in
microwave generation from plasmas; early work in the technology of
ultrahigh-vacuum and ion pump design

ACADEMIC BACKGROUND

B.S. in physics (1954), Queens College, New York; graduate work in physics
(1954-56), Columbia University

PUBLICATIONS AND INVENTIONS

Author or coauthor of more than thirty articles on lasers and plasma
research, and more recently, the first major publication of research
on psychoenergetic phenomena in Nature and in The Proceedings of the
IEEE: "Information Transfer Under Conditions of Sensory Shielding,"
Nature (October 18, 1974) and "A Perceptual Channel for Information
Transfer Over Kilometer Distances," Proc. IEEE (March 1976)
Coauthor of Mind-Reach: Scientists Look at Physical Research (Delacorte
Press, New York, 1976); Mind at Large: IEEE Symposia on the Nature of
Extrasensory Perception (Praeger, New York, 1979)

PROFESSIONAL ASSOCIATIONS

Senior member IEEE; American Physical Society; President and cofounder
of Parapsychology Research Group, a tax exempt California corporation
since 1963, with research and educational objectives in the area of
psychic functioning

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BEVERLY S. HUMPHREY

Research Analyst
Radio Physics Laboratory
Systems Research and Analysis Division

SPECIALIZED PROFESSIONAL COMPETENCE

Historical and theoretical linguistics, languages (modern and ancient),
cognitive anthropology, archeological field techniques

REPRESENTATIVE RESEARCH ASSIGNMENTS AT SRI (since 1978)

Blind evaluation of free-response psychoenergetic data and development
of evaluation techniques
Development of psychokinesis experimental protocols and responsibility
for PK experimentation
Investigation of target demarcation and target selection
Participation in RV experiments as both experiment monitor and beacon

OTHER PROFESSIONAL EXPERIENCE

Historical linguistics researcher in ancient Greek at Stanford University
Psychoenergetics research consultant for The Mobius Group (archeological
Egyptian project)
Researcher in correlations between botanical anomalies and archeological
site locations, Florence, Italy

ACADEMIC BACKGROUND

B.A. in anthropology (Stanford University, 1977)
Language study (The Goethe-Institut, Freiberg, Germany, 1975)
Archeological research (Stanford in Italy, 1975)

PUBLICATIONS

Coauthor of "Investigations in Target Acquisition," Research in Para-
psychology (1979); coauthor of several SRI reports on psychoenergetic
research

PROFESSIONAL ASSOCIATIONS AND HONORS

Phi Beta Kappa, Departmental Distinction in Anthropology, the Henry
Fairclough Award for Excellence in Classics (Stanford University)

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